

DERWENT-ACC-NO: 1979-64894B

DERWENT-WEEK: 198243

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TITLE: Electrochemical finishing of metals with  
vibrating electrode with electrode gap and pressure  
regulated to uniform rate of change of relative resistance

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PATENT-ASSIGNEE: SEMASCHKO A P[SEMAI]

PRIORITY-DATA: 1978SU-2625801 (June 26, 1978) , 1978SU-2576306  
(February 1,  
1978) , 1978SU-2605519 (April 18, 1978) , 1979DE-2903873 (February 1,  
1979)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
DE <u>2903873</u> A	August 30, 1979	DE
FR 2416080 A	October 5, 1979	FR
DE <u>2903873</u> C	May 6, 1982	DE
SU 828534 A	April 23, 1982	RU
SU 891309 A	December 25, 1981	RU

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
DE 2903873A	N/A	1979DE-2903873
February 1, 1979		
DE 2903873C	N/A	1979DE-2903873
February 1, 1979		

ABSTRACTED-PUB-NO: DE 2903873 A

BASIC-ABSTRACT:

Electrochemical treatment uses a forced oscillation of one of the electrodes which is synchronised with impulses of a synchronised voltage applied to the electrodes. The impulse of the voltage ( $U$ ) is supplied also at that instant at which the electrodes are at their minimum gap ( $S_{min}$ ), a change,

produced by cavitation in the electrolyte as the electrodes are moved apart, in a relative resistance of the electrode gap (S) which represents a ratio of a time change value of the resistance (R) of the electrode gap (S) to its value when the electrode gap is a minimum ( $S_{min}$ ) is monitored, and the value of the electrode gap (S) and a pressure (P1) at the inlet to the gap are regulated while keeping constant the necessary change value in the relative resistance. Pref. the necessary change in the relative resistance of the electrode gap (S) is obtd. by periodic adjustment of the electrode gap. by remeasuring and storing the change value of the relative resistance at this gap on each occasion as an input and reference value. Used in precision finishing of metals and alloys by electrochemical processes. Method allows min. electrode gap to be maintained accurately.

TITLE-TERMS: ELECTROCHEMICAL FINISH METAL VIBRATION ELECTRODE GAP PRESSURE

REGULATE UNIFORM RATE CHANGE RELATIVE RESISTANCE

DERWENT-CLASS: M11 P56 X24

CPI-CODES: M11-H03;